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Superintendent

Grade 5 Math Performance/Achievement Descriptors

Advanced	<p>Students at this level demonstrate a comprehensive and in-depth understanding of the following rigorous subject matter.</p> <ul style="list-style-type: none"> • Employ sophisticated or efficient problem solving strategies to solve multi-step or complex problems involving the four operations and elegantly communicate strategies using sophisticated mathematical language, symbols, and/or visual representation • Employ sophisticated or efficient problem solving strategies to solve multi-step multiplication and division problems involving numbers with money • Employ sophisticated or efficient problem solving strategies to solve multi-step addition and subtraction problems involving numbers with decimals and fractions • Use and apply strategies and procedures to solve single-step algebraic problems • Use properties and vocabulary to describe and identify two- and three-dimensional figures • Locate position on a coordinate plane after a transformation • Convert measures within metric and standard systems • Solve geometric problems using formulas • Collect, organize, display, read, and interpret complex data and use data in problem solving situations • Predict the outcome of events
Proficient	<p>Students at this level demonstrate a solid understanding of the following challenging subject matter</p> <ul style="list-style-type: none"> • Employ appropriate problem-solving strategies to solve single-step problems and some multi-step problems involving the four operations and clearly communicate strategies using appropriate mathematical language, symbols, and/or visual representation • Employ appropriate problem-solving strategies to solve single-step multiplication and division problems involving numbers with money • Employ appropriate problem-solving strategies to solve simple and some complex addition and subtraction problems involving numbers with decimals and fractions • Identify and use rules for numeric and geometric patterns • Use and apply strategies and procedures to solve simple algebraic problems • Use properties and vocabulary to describe and identify two- and three-dimensional figures • Identify transformations • Locate position on a coordinate plane • Solve simple geometric problems using formulas • Organize, display, read, and interpret data and use data in problem solving situations • Find all possible outcomes of an experiment
Nearing Proficiency	<p>Students at this level demonstrate a partial understanding of the following subject matter</p> <ul style="list-style-type: none"> • Employ appropriate problem-solving strategies to single-step and/or straight computation problems of the four operations and communicate strategies using minimal mathematical language, symbols, and/or visual representation • Employ appropriate problem-solving strategies to solve simple addition and subtraction problems involving numbers with decimals and fractions • Use and apply some strategies and procedures to solve simple algebraic problems • Use properties and vocabulary to describe and identify two- and some three-dimensional figures • Organize, display, read, and interpret data and use data in simple problem solving situations

Novice	<p>Students at this level demonstrate a minimal understanding of the following subject matter.</p> <ul style="list-style-type: none"> • Employ appropriate problem-solving strategies to single-step and/or straight computation problems for some of the four operations and communicate strategies using limited mathematical language, symbols, and/or visual representation • Read and identify numbers into the millions • Employ appropriate problem-solving strategies to solve single-step and/or straight computation multiplication problems involving numbers with money • Employ some appropriate problem-solving strategies to solve simple addition and subtraction problems involving numbers with decimals • Identify numeric and geometric patterns • Use and apply some strategies to solve simple algebraic problems • Use some properties and vocabulary to describe and identify some two- and three-dimensional figures • Identify some transformations • Select appropriate units, tools, and techniques in applying measurement skills to everyday situations • Display, read, and interpret data • Find possible outcomes of a simple experiment
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